

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P776695

Luminaire Tested: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS4050CSD-HCD6TRC-5000lm-2700K  
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

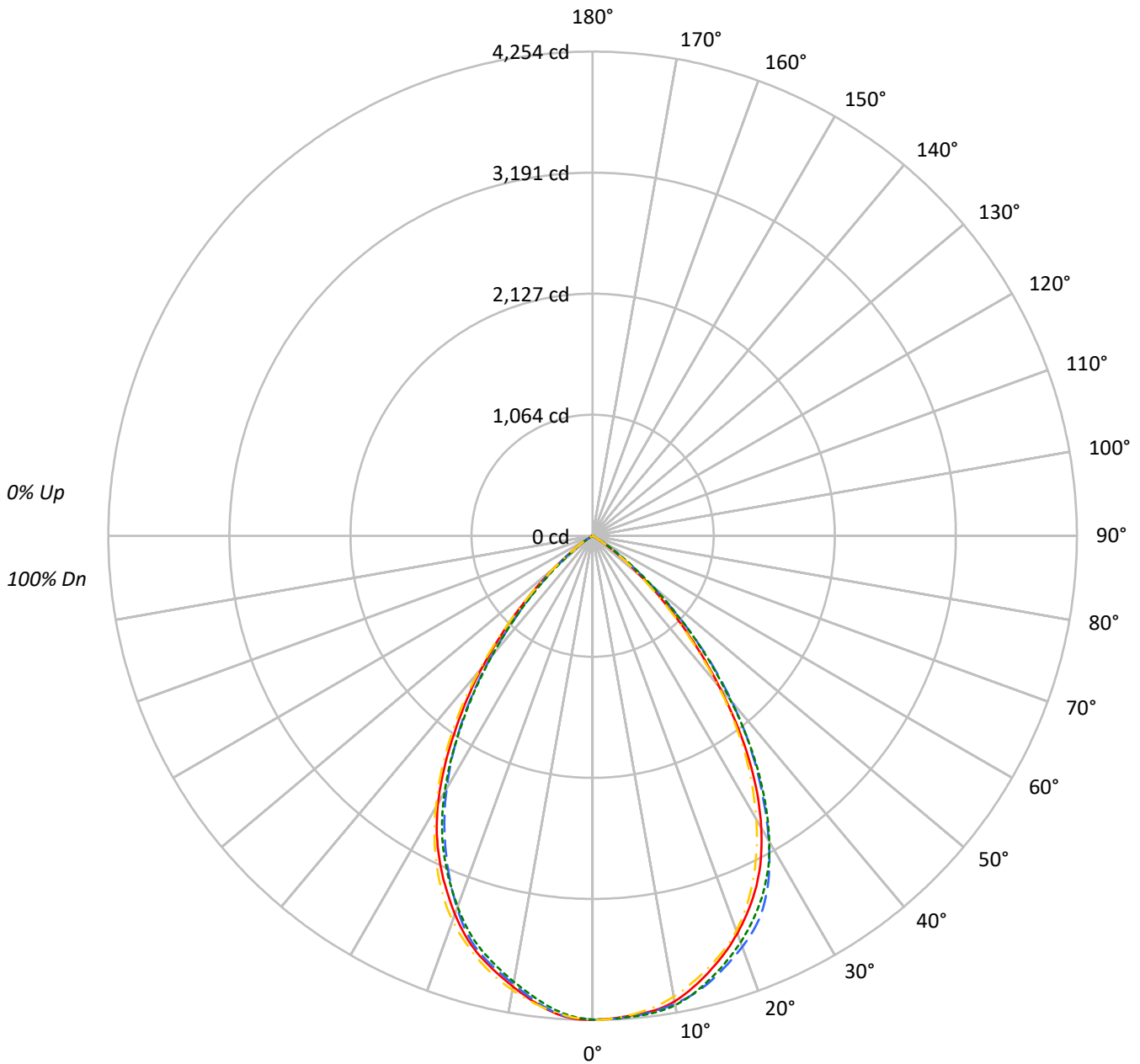
Lumens per Lamp: N/A  
Luminaire Lumens: 5373.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776695  
CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59					59			
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54					54			
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50					50			
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	233057	233057	233057	233057
5°	232593	233270	230811	229077
10°	231169	233101	223960	221528
15°	224899	228338	216908	213855
20°	216844	221738	206314	202271
25°	205669	212450	191939	186839
30°	187478	196334	171982	164677
35°	160160	170165	141890	132983
40°	123803	134860	107845	98685
45°	85559	96832	71496	62976
50°	48442	57968	37125	30754
55°	18207	24353	14766	11593
60°	1305	4199	603	702
65°	182	233	182	117
70°	80	80	80	80
75°	0	106	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 100158 cd/sqm



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.7	7.4
10°-20°	1095.5	20.4
20°-30°	1505.3	28.0
30°-40°	1399.4	26.0
40°-50°	790.2	14.7
50°-60°	182.3	3.4
60°-70°	2.3	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2998.5	55.8
0°-40°	4398.0	81.9
0°-60°	5370.5	100.0
0°-90°	5373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5373.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4251	4251	4251	4251	4251	
5°	4227	4239	4194	4163	4227	401
15°	3963	4023	3822	3768	3963	1114
25°	3400	3512	3173	3089	3400	1553
35°	2393	2543	2120	1987	2393	1476
45°	1104	1249	922	812	1104	854
55°	190	255	154	121	190	197
65°	1	2	1	1	1	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4251.3	4251.3	4251.3	4251.3	4251.3	4251.3	4251.3	4251.3	4251.3	4251.3	4251.3
0.5°	4252.6	4250.4	4250.4	4252.2	4249.9	4252.2	4254.0	4254.9	4253.6	4250.4	4248.5
1°	4250.8	4250.4	4250.4	4252.2	4250.4	4252.6	4253.6	4254.0	4253.1	4250.4	4247.6
1.5°	4248.1	4248.1	4249.4	4252.2	4249.4	4252.6	4251.3	4252.2	4250.8	4248.1	4244.9
2°	4245.8	4246.7	4248.5	4252.2	4249.0	4252.2	4248.5	4248.5	4248.1	4245.8	4241.2
2.5°	4243.1	4245.3	4247.6	4250.8	4248.1	4249.9	4244.9	4244.0	4243.1	4241.2	4236.7
3°	4239.4	4243.1	4245.3	4249.0	4246.7	4247.6	4240.3	4238.1	4236.2	4235.8	4230.8
3.5°	4236.2	4240.8	4243.1	4247.6	4245.3	4244.9	4235.3	4230.8	4227.6	4227.6	4222.6
4°	4233.5	4238.5	4240.8	4245.3	4243.1	4242.2	4229.8	4222.1	4218.5	4217.5	4213.0
4.5°	4229.8	4235.3	4238.1	4243.1	4241.2	4239.4	4223.0	4212.5	4207.1	4206.1	4200.7
5°	4226.7	4232.6	4234.9	4239.9	4239.0	4236.2	4216.6	4202.0	4194.3	4193.4	4187.0
5.5°	4223.9	4228.9	4231.2	4236.7	4236.7	4233.0	4208.9	4190.2	4180.2	4178.3	4172.0
6°	4219.4	4224.8	4226.7	4233.5	4234.9	4229.4	4201.1	4178.3	4166.0	4163.3	4155.1
6.5°	4215.3	4219.8	4222.1	4229.4	4231.2	4226.2	4192.9	4165.1	4149.6	4146.0	4138.2
7°	4209.8	4214.8	4216.6	4225.3	4228.0	4221.6	4184.7	4151.9	4133.2	4129.1	4119.5
7.5°	4203.4	4208.4	4211.2	4220.3	4224.4	4217.5	4174.7	4138.2	4115.9	4110.9	4100.4
8°	4196.6	4201.1	4204.8	4215.3	4219.4	4212.5	4163.7	4122.7	4098.1	4092.2	4080.3
8.5°	4188.4	4192.9	4197.9	4208.4	4213.0	4205.7	4152.4	4107.7	4079.4	4072.6	4060.7
9°	4177.9	4183.8	4190.6	4202.5	4205.2	4198.4	4140.0	4092.2	4061.6	4054.3	4040.7
9.5°	4166.0	4172.9	4182.9	4194.7	4196.6	4189.3	4125.9	4077.1	4042.5	4035.2	4021.1
10°	4152.8	4161.9	4174.2	4186.5	4187.5	4178.3	4110.9	4060.7	4023.3	4015.1	4001.5
10.5°	4138.2	4149.2	4165.6	4177.0	4175.6	4166.0	4095.8	4043.4	4003.7	3995.5	3981.0
11°	4121.4	4135.0	4155.1	4166.9	4162.4	4151.9	4079.9	4026.1	3984.1	3975.5	3960.9
11.5°	4104.9	4119.5	4145.1	4156.5	4148.3	4135.9	4062.1	4009.7	3965.0	3955.4	3941.3
12°	4086.3	4104.0	4132.8	4145.1	4132.3	4118.6	4044.3	3991.9	3945.9	3934.9	3922.6
12.5°	4067.1	4087.2	4120.9	4132.3	4116.3	4099.9	4025.2	3973.2	3925.8	3913.0	3903.5
13°	4047.1	4069.8	4106.8	4119.5	4099.0	4081.2	4007.8	3954.1	3906.2	3891.6	3884.8
13.5°	4027.4	4051.2	4093.1	4106.3	4080.8	4061.6	3987.8	3934.5	3885.7	3868.4	3864.7
14°	4005.6	4032.5	4077.6	4092.2	4062.1	4040.7	3969.6	3913.9	3865.2	3844.7	3844.7
14.5°	3985.1	4014.2	4060.7	4077.1	4042.5	4019.2	3949.0	3891.6	3844.2	3819.6	3823.2
15°	3962.7	3994.2	4042.5	4062.1	4023.3	3997.4	3929.4	3869.3	3821.9	3795.0	3801.3
15.5°	3940.8	3974.1	4024.3	4044.8	4003.3	3975.9	3908.5	3846.5	3799.5	3768.5	3778.1
16°	3918.5	3954.1	4005.1	4027.4	3982.3	3954.5	3888.9	3820.9	3775.8	3741.6	3753.5
16.5°	3895.7	3933.5	3985.1	4008.8	3961.8	3932.6	3867.0	3795.4	3750.3	3714.7	3725.7
17°	3871.5	3912.6	3965.5	3990.5	3939.9	3910.3	3845.1	3770.3	3723.4	3685.6	3696.5
17.5°	3848.8	3891.6	3945.4	3970.5	3917.6	3888.0	3823.2	3743.0	3695.1	3654.6	3665.0
18°	3823.7	3870.6	3925.3	3951.3	3894.8	3864.7	3799.1	3716.1	3666.9	3625.4	3631.3
18.5°	3798.6	3849.7	3905.3	3931.3	3872.5	3841.9	3775.4	3686.9	3635.4	3593.9	3595.3
19°	3771.7	3827.8	3885.2	3910.8	3848.8	3819.1	3749.4	3658.7	3604.0	3562.5	3558.4
19.5°	3744.4	3805.0	3864.7	3889.3	3825.5	3794.5	3721.1	3629.5	3570.7	3528.7	3520.5
20°	3717.0	3781.7	3843.3	3866.1	3800.9	3769.9	3692.4	3598.5	3536.5	3496.4	3481.3
20.5°	3688.3	3757.1	3822.3	3842.8	3774.5	3742.5	3661.9	3566.1	3501.9	3462.2	3440.3
21°	3660.0	3731.6	3800.0	3818.7	3748.5	3714.7	3630.4	3534.7	3467.2	3427.1	3399.3



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	3568.4	3647.7	3726.6	3738.4	3666.4	3625.4	3527.4	3434.8	3360.1	3321.3	3275.8
23°	3537.4	3616.7	3698.3	3707.9	3636.3	3592.6	3490.9	3399.7	3324.5	3285.8	3232.0
23.5°	3504.1	3584.8	3669.6	3677.4	3607.2	3560.2	3452.6	3365.1	3289.0	3246.1	3187.3
24°	3470.4	3551.5	3636.8	3644.1	3576.6	3525.6	3414.3	3330.5	3250.7	3206.5	3142.6
24.5°	3435.3	3517.8	3602.6	3608.5	3544.7	3490.5	3376.0	3295.8	3211.9	3166.3	3097.5
25°	3400.2	3482.3	3566.6	3573.0	3512.3	3454.9	3337.3	3258.0	3173.2	3124.9	3052.8
25.5°	3363.3	3444.0	3528.3	3535.1	3478.6	3417.1	3299.0	3219.2	3132.6	3082.9	3007.3
26°	3324.1	3405.2	3487.3	3495.5	3441.2	3379.2	3252.5	3178.7	3091.6	3041.4	2961.7
26.5°	3284.4	3366.0	3445.3	3454.4	3403.8	3341.4	3208.3	3136.7	3049.6	2997.2	2916.1
27°	3243.4	3324.1	3400.7	3411.6	3366.5	3304.0	3165.0	3094.8	3005.9	2953.0	2869.6
27.5°	3200.5	3278.9	3354.6	3367.8	3329.1	3264.4	3118.0	3050.6	2962.1	2907.0	2820.8
28°	3154.5	3233.4	3304.5	3321.3	3291.2	3219.7	3072.4	3004.5	2917.5	2858.6	2772.0
28.5°	3109.8	3185.5	3254.8	3273.9	3246.6	3177.3	3024.1	2956.7	2869.6	2808.0	2720.5
29°	3061.5	3135.8	3201.9	3223.8	3200.1	3129.9	2975.8	2908.3	2820.4	2757.0	2670.4
29.5°	3011.8	3087.5	3149.5	3173.2	3151.3	3083.8	2925.2	2857.7	2768.4	2705.0	2616.6
30°	2961.7	3033.7	3094.3	3121.2	3101.6	3035.5	2875.5	2806.7	2716.9	2651.7	2562.8
30.5°	2910.6	2982.6	3040.1	3069.7	3050.6	2986.7	2823.5	2753.3	2662.2	2597.0	2508.6
31°	2857.3	2929.3	2983.1	3013.6	2999.0	2935.2	2770.7	2698.6	2606.6	2541.4	2455.2
31.5°	2801.7	2874.6	2926.1	2958.9	2945.3	2884.6	2717.3	2643.9	2549.6	2484.8	2400.5
32°	2747.9	2818.1	2868.2	2901.0	2890.6	2831.8	2664.5	2588.3	2490.3	2427.9	2346.3
32.5°	2692.3	2761.5	2810.8	2843.6	2835.4	2779.3	2609.3	2530.9	2430.1	2367.7	2290.7
33°	2635.7	2704.6	2750.6	2785.3	2778.9	2722.3	2554.6	2472.5	2369.5	2307.1	2236.0
33.5°	2576.5	2646.7	2694.5	2727.4	2722.3	2666.7	2499.0	2413.7	2308.0	2246.9	2181.3
34°	2518.6	2586.5	2634.8	2667.6	2662.2	2609.3	2443.8	2353.6	2245.5	2184.4	2125.2
34.5°	2456.6	2526.8	2576.5	2609.3	2602.9	2550.9	2386.8	2294.3	2181.7	2123.8	2067.7
35°	2393.2	2463.9	2517.2	2549.6	2542.7	2489.9	2330.8	2233.2	2120.2	2062.3	2008.9
35.5°	2329.4	2401.9	2458.4	2490.3	2481.7	2430.1	2273.8	2172.6	2058.6	1999.8	1950.1
36°	2266.0	2339.4	2399.6	2431.1	2419.7	2367.7	2214.5	2111.0	1998.0	1939.2	1890.0
36.5°	2199.9	2275.6	2338.5	2370.9	2354.5	2305.2	2153.0	2050.0	1936.9	1877.2	1828.4
37°	2133.4	2213.6	2280.2	2309.8	2289.3	2242.8	2092.4	1989.3	1876.3	1816.1	1765.1
37.5°	2065.0	2148.0	2220.9	2247.8	2223.2	2178.5	2029.5	1928.3	1816.1	1755.0	1703.1
38°	1997.1	2083.2	2159.4	2185.8	2156.6	2112.4	1967.0	1865.8	1756.4	1692.1	1639.7
38.5°	1928.7	2018.1	2096.9	2121.5	2088.7	2046.3	1903.2	1804.3	1696.2	1631.0	1577.7
39°	1859.9	1952.9	2034.0	2059.5	2021.2	1980.2	1837.5	1742.3	1633.3	1569.0	1514.3
39.5°	1795.1	1887.7	1971.6	1995.3	1952.4	1912.8	1773.3	1680.3	1570.4	1507.5	1449.2
40°	1730.0	1819.8	1906.8	1932.4	1884.5	1843.9	1708.1	1617.4	1507.0	1444.6	1387.2
40.5°	1666.1	1753.2	1843.0	1867.2	1818.8	1776.9	1642.0	1555.4	1443.7	1383.5	1322.9
41°	1602.8	1687.1	1777.8	1802.0	1752.3	1709.4	1574.1	1493.4	1381.2	1322.9	1260.0
41.5°	1539.4	1613.3	1713.5	1735.9	1688.0	1642.4	1506.6	1430.9	1318.8	1261.8	1197.5
42°	1476.5	1554.0	1650.6	1670.7	1623.3	1576.8	1439.6	1368.0	1260.0	1202.5	1136.9
42.5°	1413.1	1494.7	1585.9	1605.5	1562.2	1511.1	1374.8	1306.5	1203.9	1143.7	1080.4
43°	1349.8	1435.5	1521.2	1541.2	1499.8	1447.8	1308.8	1240.8	1146.9	1085.4	1022.5
43.5°	1286.9	1376.2	1456.4	1500.7	1435.9	1384.0	1244.0	1178.8	1091.3	1028.9	968.7



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1103.6	1192.5	1263.6	1291.9	1249.0	1194.3	1062.1	997.4	922.2	867.0	811.9
45.5°	1044.4	1131.4	1198.9	1222.6	1186.1	1133.2	1003.3	937.2	867.9	813.2	764.0
46°	988.3	1071.3	1134.2	1161.1	1126.0	1072.6	944.5	879.8	814.2	762.6	716.1
46.5°	930.8	1012.0	1071.7	1100.4	1069.0	1013.8	888.5	823.7	761.3	713.9	671.0
47°	873.9	955.0	1010.2	1039.3	1009.7	956.4	831.9	767.7	709.3	666.0	626.8
47.5°	817.8	897.1	950.5	979.2	952.7	901.7	778.1	716.1	661.9	619.5	586.2
48°	765.4	840.6	891.2	919.9	897.6	847.4	726.2	662.8	612.2	574.8	545.2
48.5°	712.5	784.5	832.8	862.0	842.0	795.0	676.0	614.0	564.3	532.4	507.4
49°	663.3	731.6	777.2	805.9	785.9	744.4	626.8	566.2	517.4	491.9	470.0
49.5°	614.0	678.3	722.1	749.4	731.2	695.2	581.7	522.4	474.1	453.1	437.6
50°	568.0	625.9	670.6	696.5	679.7	646.9	536.1	479.6	435.3	418.9	405.3
50.5°	521.0	575.3	620.0	644.1	628.2	599.4	494.6	444.0	397.0	384.7	372.9
51°	478.2	526.1	570.3	593.5	579.8	554.3	454.9	408.9	358.8	351.0	340.5
51.5°	435.8	478.2	522.9	544.3	532.4	510.1	419.8	373.3	320.5	316.8	308.2
52°	394.3	434.0	477.3	496.9	486.8	467.7	384.7	337.8	289.5	286.3	279.4
52.5°	354.2	392.0	433.5	453.6	446.7	429.0	349.6	302.2	261.7	258.5	252.5
53°	317.3	352.8	392.0	410.3	407.1	390.2	314.5	273.1	237.0	232.5	226.6
53.5°	281.7	315.0	351.0	368.3	367.0	351.9	284.5	247.1	215.2	208.3	201.9
54°	248.0	280.8	314.1	329.6	327.3	313.2	255.3	222.0	193.3	185.1	177.3
54.5°	217.9	247.5	277.6	294.0	287.6	280.3	228.8	198.8	173.7	164.1	155.0
55°	190.5	217.4	244.8	260.3	254.8	249.4	202.4	176.9	154.5	143.6	133.1
55.5°	165.0	189.6	213.8	228.4	223.8	219.3	177.8	155.9	135.8	123.5	113.1
56°	144.5	162.7	184.2	198.3	195.6	192.4	155.0	135.8	118.1	105.3	93.9
56.5°	124.4	142.2	156.8	171.9	169.1	166.8	132.7	117.2	100.7	88.0	77.0
57°	103.9	121.7	136.3	150.9	144.5	143.1	112.1	98.9	84.3	72.5	63.4
57.5°	83.9	101.2	115.8	129.9	122.2	120.8	93.0	82.1	69.7	57.4	49.2
58°	63.4	80.7	95.3	109.4	101.2	100.3	76.6	67.5	54.7	42.4	35.1
58.5°	45.1	60.2	74.8	88.4	83.4	82.5	62.5	52.9	40.1	26.9	21.4
59°	27.8	42.4	56.5	67.9	68.4	67.5	48.3	38.3	25.5	11.9	7.3
59.5°	15.0	26.0	38.3	49.2	53.3	52.9	34.6	23.7	10.9	6.4	5.0
60°	11.9	13.7	22.8	31.5	38.3	37.8	20.5	9.1	5.5	4.6	4.1
60.5°	9.1	10.9	11.9	17.8	23.2	23.2	6.4	5.0	4.1	3.6	3.6
61°	5.9	8.7	9.6	14.1	8.7	8.2	4.1	3.6	3.6	3.2	3.2
61.5°	3.2	5.9	7.3	10.5	5.0	4.6	3.2	3.2	3.2	2.7	2.7
62°	2.7	3.6	5.5	7.3	3.6	3.6	2.7	2.7	2.7	2.7	2.3
62.5°	2.3	3.2	3.6	3.6	3.2	3.2	2.3	2.3	2.3	2.3	2.3
63°	2.3	2.7	3.2	3.2	2.7	2.7	2.3	2.3	1.8	1.8	1.8
63.5°	1.8	2.3	2.7	2.7	2.3	2.3	1.8	1.8	1.8	1.8	1.8
64°	1.4	1.8	2.3	2.3	2.3	1.8	1.8	1.8	1.8	1.8	1.4
64.5°	1.4	1.8	1.8	2.3	1.8	1.8	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.8	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4
65.5°	0.9	1.4	1.4	1.8	1.4	1.4	1.4	1.4	1.4	1.4	0.9
66°	0.9	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9





TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
68°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
68.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5
69°	0.5	0.5	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5
75.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776695  
CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4251.3	4251.3	4251.3	4251.3	4251.3	4251.3
0.5°	4248.5	4246.3	4247.6	4251.3	4252.6	4252.6
1°	4245.8	4243.1	4243.1	4248.5	4250.4	4250.8
1.5°	4242.2	4238.1	4237.6	4244.9	4246.7	4248.1
2°	4236.7	4231.7	4230.3	4239.4	4243.1	4245.8
2.5°	4230.3	4223.9	4222.1	4233.0	4238.5	4243.1
3°	4221.6	4214.8	4212.5	4225.7	4233.5	4239.4
3.5°	4212.1	4203.9	4202.0	4217.1	4228.0	4236.2
4°	4200.7	4191.6	4190.2	4208.9	4222.6	4233.5
4.5°	4187.5	4177.9	4177.4	4199.3	4216.6	4229.8
5°	4172.9	4162.8	4162.8	4189.3	4210.2	4226.7
5.5°	4156.0	4147.3	4148.3	4178.3	4203.9	4223.9
6°	4140.0	4130.5	4132.8	4166.9	4196.6	4219.4
6.5°	4121.8	4112.7	4116.8	4155.1	4187.9	4215.3
7°	4104.0	4094.5	4099.9	4142.8	4180.2	4209.8
7.5°	4085.3	4076.7	4083.1	4128.6	4170.1	4203.4
8°	4065.3	4057.1	4065.7	4115.4	4161.0	4196.6
8.5°	4045.7	4038.4	4048.0	4100.8	4148.7	4188.4
9°	4026.5	4018.8	4029.3	4085.8	4136.4	4177.9
9.5°	4006.9	3999.2	4010.1	4069.8	4122.7	4166.0
10°	3986.9	3979.6	3992.3	4054.3	4108.1	4152.8
10.5°	3966.4	3960.0	3974.1	4037.0	4092.6	4138.2
11°	3947.2	3940.4	3955.4	4020.6	4075.8	4121.4
11.5°	3925.8	3920.3	3935.8	4003.3	4058.4	4104.9
12°	3905.7	3899.4	3916.2	3984.6	4040.7	4086.3
12.5°	3884.3	3879.3	3896.6	3965.5	4022.0	4067.1
13°	3862.9	3857.9	3876.6	3945.9	4004.2	4047.1
13.5°	3839.2	3836.4	3855.1	3925.3	3985.1	4027.4
14°	3816.4	3813.7	3833.7	3904.4	3965.9	4005.6
14.5°	3792.2	3791.8	3811.4	3881.6	3947.2	3985.1
15°	3768.1	3768.1	3788.1	3859.2	3927.6	3962.7
15.5°	3742.1	3743.5	3764.9	3835.1	3906.6	3940.8
16°	3715.6	3717.9	3739.8	3812.3	3886.1	3918.5
16.5°	3687.8	3691.5	3713.4	3788.1	3864.7	3895.7
17°	3659.6	3663.2	3686.0	3763.1	3842.8	3871.5
17.5°	3628.1	3633.1	3656.8	3737.5	3819.6	3848.8
18°	3598.0	3602.1	3626.8	3711.5	3794.5	3823.7
18.5°	3564.8	3569.8	3595.3	3685.1	3767.6	3798.6
19°	3531.0	3537.0	3562.9	3656.8	3739.4	3771.7
19.5°	3496.4	3502.3	3530.1	3628.1	3710.2	3744.4
20°	3460.8	3467.2	3496.4	3598.5	3679.2	3717.0
20.5°	3423.4	3431.7	3461.3	3566.6	3647.7	3688.3
21°	3385.2	3395.6	3425.7	3535.1	3614.0	3660.0

TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3271.6	3284.0	3317.7	3428.0	3505.0	3568.4
23°	3231.5	3247.0	3281.7	3390.6	3465.4	3537.4
23.5°	3188.7	3208.7	3243.4	3352.3	3425.3	3504.1
24°	3146.3	3170.0	3205.5	3311.8	3386.1	3470.4
24.5°	3103.0	3129.0	3165.0	3272.6	3345.0	3435.3
25°	3060.1	3088.9	3125.8	3230.2	3302.6	3400.2
25.5°	3015.0	3047.4	3083.4	3187.8	3259.3	3363.3
26°	2969.0	3004.1	3042.4	3144.0	3216.0	3324.1
26.5°	2922.0	2959.4	2998.6	3100.7	3171.8	3284.4
27°	2874.1	2913.3	2952.6	3054.7	3127.1	3243.4
27.5°	2824.5	2865.5	2904.7	3007.3	3082.0	3200.5
28°	2774.3	2816.3	2855.5	2957.6	3033.2	3154.5
28.5°	2722.3	2764.3	2805.3	2908.3	2985.8	3109.8
29°	2669.9	2712.3	2752.9	2856.8	2936.1	3061.5
29.5°	2615.7	2657.2	2697.7	2807.1	2886.5	3011.8
30°	2561.0	2601.5	2643.0	2752.9	2834.0	2961.7
30.5°	2506.3	2543.2	2586.5	2700.5	2783.0	2910.6
31°	2450.2	2485.3	2528.2	2645.3	2730.1	2857.3
31.5°	2393.2	2424.7	2466.2	2590.6	2676.8	2801.7
32°	2336.2	2363.1	2405.5	2537.3	2621.1	2747.9
32.5°	2279.3	2300.2	2344.9	2480.3	2566.9	2692.3
33°	2219.5	2239.1	2282.9	2424.7	2509.9	2635.7
33.5°	2161.2	2176.2	2220.0	2366.3	2455.2	2576.5
34°	2100.1	2114.2	2158.9	2308.4	2398.7	2518.6
34.5°	2041.3	2049.1	2096.0	2249.6	2340.8	2456.6
35°	1982.0	1987.1	2034.5	2188.5	2280.2	2393.2
35.5°	1921.4	1925.1	1973.8	2128.8	2220.9	2329.4
36°	1861.2	1864.4	1911.8	2067.7	2158.9	2266.0
36.5°	1798.3	1805.2	1852.1	2006.7	2096.9	2199.9
37°	1735.9	1743.6	1791.5	1942.4	2032.2	2133.4
37.5°	1673.4	1683.5	1730.4	1878.6	1967.5	2065.0
38°	1610.5	1617.4	1668.9	1814.7	1902.3	1997.1
38.5°	1548.1	1557.6	1606.9	1748.6	1836.2	1928.7
39°	1484.3	1497.9	1544.4	1685.7	1769.2	1859.9
39.5°	1422.3	1438.2	1482.0	1615.1	1702.2	1795.1
40°	1361.2	1379.0	1419.5	1553.1	1631.0	1730.0
40.5°	1300.5	1317.9	1357.1	1490.6	1564.5	1666.1
41°	1240.8	1257.2	1294.6	1428.6	1497.9	1602.8
41.5°	1181.1	1199.3	1232.6	1366.2	1431.8	1539.4
42°	1121.4	1141.9	1173.4	1302.4	1365.3	1476.5
42.5°	1064.0	1085.4	1115.5	1239.5	1299.2	1413.1
43°	1006.1	1028.9	1056.7	1176.1	1236.3	1349.8
43.5°	950.0	975.1	999.2	1112.7	1173.4	1286.9



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	791.4	812.3	829.7	926.7	994.2	1103.6
45.5°	742.6	760.4	774.0	868.9	938.1	1044.4
46°	693.8	708.4	720.7	812.8	883.9	988.3
46.5°	649.1	660.1	668.7	758.1	831.5	930.8
47°	604.9	611.8	619.0	707.0	779.5	873.9
47.5°	563.4	564.3	570.3	657.3	727.1	817.8
48°	522.4	518.8	523.3	608.1	678.3	765.4
48.5°	483.2	477.3	479.6	563.0	630.0	712.5
49°	446.7	435.8	437.6	519.2	583.9	663.3
49.5°	413.9	398.4	399.3	479.6	538.4	614.0
50°	381.5	360.6	361.5	440.4	496.0	568.0
50.5°	348.7	327.8	327.8	402.1	453.1	521.0
51°	315.9	295.8	296.3	366.0	413.9	478.2
51.5°	286.7	268.5	268.0	334.6	376.1	435.8
52°	258.9	242.5	243.0	303.1	341.4	394.3
52.5°	232.9	219.3	219.3	273.5	307.7	354.2
53°	207.9	196.5	196.9	245.2	276.2	317.3
53.5°	184.2	176.4	176.4	219.7	246.2	281.7
54°	161.8	157.3	156.4	195.1	218.8	248.0
54.5°	141.3	139.5	138.6	171.9	191.5	217.9
55°	120.8	121.3	120.3	151.8	167.3	190.5
55.5°	102.1	103.5	102.6	132.2	146.8	165.0
56°	84.3	85.7	84.3	112.6	126.7	144.5
56.5°	69.3	69.7	68.4	93.0	106.2	124.4
57°	54.7	52.4	51.1	73.4	86.2	103.9
57.5°	39.7	35.6	33.7	56.1	66.1	83.9
58°	25.1	21.0	19.1	37.4	47.4	63.4
58.5°	10.0	16.9	15.0	22.3	30.5	45.1
59°	5.5	13.2	10.9	11.4	17.3	27.8
59.5°	4.1	10.0	7.3	9.1	13.7	15.0
60°	3.6	6.4	3.2	6.8	10.0	11.9
60.5°	3.2	2.7	2.7	5.0	6.4	9.1
61°	2.7	2.3	2.3	2.7	3.2	5.9
61.5°	2.3	2.3	1.8	2.3	2.7	3.2
62°	1.8	1.8	1.8	2.3	2.3	2.7
62.5°	1.8	1.8	1.4	1.8	1.8	2.3
63°	1.8	1.4	1.4	1.8	1.8	2.3
63.5°	1.4	1.4	1.4	1.4	1.4	1.8
64°	1.4	1.4	1.4	1.4	1.4	1.4
64.5°	1.4	0.9	0.9	1.4	1.4	1.4
65°	0.9	0.9	0.9	0.9	0.9	1.4
65.5°	0.9	0.9	0.9	0.9	0.9	0.9
66°	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.9	0.5	0.5	0.5	0.5	0.9
68°	0.5	0.5	0.5	0.5	0.5	0.9
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.0	0.5	0.5	0.5
73.5°	0.5	0.0	0.0	0.0	0.0	0.5
74°	0.5	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776695

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - 135°-315°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	3629.9	3704.7	3776.7	3793.6	3721.6	3686.0	3598.0	3501.9	3431.7	3391.5	3357.8
22°	3599.4	3676.9	3752.1	3766.2	3694.2	3656.4	3563.8	3469.5	3395.6	3356.4	3316.8



44°	1223.5	1315.1	1391.7	1430.9	1372.1	1320.1	1183.4	1118.2	1034.3	974.6	915.4
44.5°	1162.4	1252.7	1327.0	1361.2	1312.4	1257.7	1124.1	1057.6	979.6	919.9	863.8



66.5°	0.9	0.9	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	3347.3	3358.7	3390.6	3500.9	3578.9	3629.9
22°	3309.5	3321.3	3354.6	3464.0	3542.9	3599.4



44°	894.4	919.0	941.3	1049.4	1112.3	1223.5
44.5°	842.4	865.7	885.7	986.5	1052.6	1162.4

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



66.5°	0.9	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	0.5	0.9	0.9	0.9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)